

Structural Requirements for Hull Type I and II Independent Pressure Tank Barges

Service		Subchapter D, Part 32 Non-LFG		Subchapter D, Part 32 and 38 LFG	
		hull	tanks	hull	tanks
RIVERS	two saddles	pinnacle grounding allowed stress: 0.5 UTS, 0.7YS	grnded, horn & bend allowed stress: 1.5 SW hoop 0.7 UTS, 1.0 YS	-----> Same as RIVERS Non-LFG	
	three or more saddles	pinnacle grounding allowed stress: 0.5 UTS, 0.7 UTS, or 0.5UTS(1.5-SWT/UTS) 0.7YS(1.5-SWT/UTS)	grnded, horn & bend allowed stress: 1.5 SW hoop 0.7 UTS, 1.0 YS		
LAKES, BAYS, and SOUNDS	two saddles	----- Same as above RIVERS -----		pinnacle grounding allowed stress: 0.5 UTS, 0.7YS	grnded, horn & bend allowed stress: 1.5 SW hoop 0.7 UTS, 1.0 YS and dynamic loading
	three or more saddles			pinnacle grounding allowed stress: 0.5 UTS, 0.7 UTS, or 0.5UTS(1.5-SWT/UTS) 0.7YS(1.5-SWT/UTS)	grnded, horn & bend allowed stress: 1.5 SW hoop 0.7 UTS, 1.0 YS and dynamic loading
OCEANS	two saddles	----- Same as above RIVERS-----		----- Same as above LBS -----	
	three or more saddles				

Subchapter O/D, Part 32 and 151 Hazardous Gases		Subchapter O/I, Part 151 Compressed Gases	
hull	tanks	hull	tanks
pinnacle grounding allowed stress: 0.5 UTS, 0.7YS	grounded, submit to Commandant	-----> Same as RIVERS Hazardous Gases	
pinnacle grounding allowed stress: 0.5UTS(1.5-SWT/UTS) 0.7YS(1.5-SWT/UTS)	grounded, submit to Commandant grounded, submit to Commandant		
----- Same as above RIVERS -----		----- Same as above RIVERS -----	
pinnacle grounding dynamic loading	dynamic loading, submit to Commandant	dynamic loading	dynamic loading, submit to Commandant
pinnacle grounding wave hogsag dynamic loading	dynamic loading, submit to Commandant	wave hogsag dynamic loading	dynamic loading, submit to Commandant